

The Enerdoor surge arrester BG (G) 50 series provides advanced surge protection. This device is designed for maximum discharge of L-N 100kA and N-PE 200 kA, meets the UL 1449 3rd edition and IEC61643-11:2011 Standards, and includes a visual and remote contact indicator.

GENERAL CHARACTERISTICS

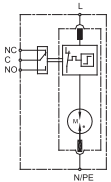

Class category IEC/VDE	I + II / B+C
Operating temperature range	-40°C + 80°C
Operating humidity range	0~90%
Response time L-N (N-PE)	≤100ns
Backup fuse (only required if not in the main)	500 Amps gL/gG
Follow current L-N	I _{fi} ≥10kARms @255Vac
N-PE	I _{fi} : 100Arms @255Vac
Enclosure material	Thermoplastic, UL94 V-0
Mounting	35mm DIN rail according to the EN50022/DIN46277-3 Standard
Max size of connecting wire	Single-strand 35mm ² (or # 2AWG) Multi-strand 25mm ² (or # 4AWG)
Remote alarm contact type	Isolated form C
Switching capability Un/In	AC: 250V/0.5A - DC: 250V/0.1A
Max size of connecting wire	Max 1.5mm ² (or #16AWG)

BG (G)	Nominal Voltage Vac L-L (L-N)	Max Continuous Operation Voltage NPE - Vac	Nominal Discharge (In, KA) 8/20		Max Discharge Current (Imax, KA)		Voltage Protection Rated (kV)		Electrical Diagram	Case
			L-N	N-PE	L-N	N-PE	LN@In	NPE (1.2/50)		
BG.150-1P50	150	-	50	-	150	-	<1.2	-	1	1
BG.275-1P50	275	-	50	-	150	-	<1.5	-	1	1
BG.320-1P50	320	-	25	-	150	-	<1.6	-	1	1
BG.385-1P50	385	-	50	-	150	-	<1.8	-	1	1
BG.420-1P50	420	-	50	-	150	-	<2.0	-	1	1
BG.150-2P50	150	-	50	-	150	-	<1.2	-	2	2
BG.275-2P50	275	-	50	-	150	-	<1.5	-	2	2
BG.320-2P50	320	-	50	-	150	-	<1.6	-	2	2
BG.385-2P50	385	-	50	-	150	-	<1.8	-	2	2
BG.420-2P50	420	-	50	-	150	-	<2.0	-	2	2
BG.150-3P50	150	-	50	-	150	-	<1.2	-	3	3
BG.275-3P50	275	-	50	-	150	-	<1.5	-	3	3
BG.320-3P50	320	-	50	-	150	-	<1.6	-	3	3
BG.385-3P50	385	-	50	-	150	-	<1.8	-	3	3
BG.420-3P50	420	-	50	-	150	-	<2.0	-	3	3
BG.150-4P50	150	-	50	-	150	-	<1.2	-	4	4
BG.275-4P50	275	-	50	-	150	-	<1.5	-	4	4
BG.320-4P50	320	-	50	-	150	-	<1.6	-	4	4
BG.385-4P50	385	-	50	-	150	-	<1.8	-	4	4
BG.420-4P50	420	-	50	-	150	-	<2.0	-	4	4
BGG.150-2P50-N50	208 (150)	150	50	50	150	150	<1.2	<0.8	5	2
BGG.150-2P50-N100	208 (150)	150	50	100	150	200	<1.2	<0.8	5	2
BGG.275-2P50-N50	320 (275)	255	50	50	150	150	<1.5	<1.5	5	2
BGG.275-2P50-N100	320 (275)	255	50	100	150	200	<1.5	<1.5	5	2

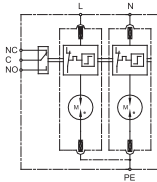
BG (G)	Nominal Voltage Vac L-L (L-N)	Max Continuous Operation Voltage NPE - Vac	Nominal Discharge (In, KA) 8/20		Max Discharge Current (Imax, KA)		Voltage Protection Rated (kV)		Electrical Diagram	Case
			L-N	N-PE	L-N	N-PE	LN@In	NPE (1.2/50)		
BGG.320-2P50-N50	400 (320)	255	50	50	150	150	<1.6	<1.5	5	2
BGG.320-2P50-N100	400 (320)	255	50	100	150	200	<1.6	<1.5	5	2
BGG.385-2P50-N50	480 (385)	255	50	50	150	150	<1.8	<1.5	5	2
BGG.385-2P50-N100	480 (385)	255	50	100	150	200	<1.8	<1.5	5	2
BGG.420-2P50-N50	600 (420)	255	50	50	150	150	<2.0	<1.5	5	2
BGG.420-2P50-N100	600 (420)	255	50	100	150	200	<2.0	<1.5	5	2
BGG.150-3P50-N50	208 (150)	255	50	50	150	150	<1.2	<0.8	6	4
BGG.150-3P50-N100	208 (150)	255	50	100	150	200	<1.2	<0.8	6	4
BGG.275-3P50-N50	320 (275)	255	50	50	150	150	<1.5	<1.5	6	4
BGG.275-3P50-N100	320 (275)	255	50	100	150	200	<1.5	<1.5	6	4
BGG.320-3P50-N50	400 (320)	255	50	50	150	150	<1.6	<1.5	6	4
BGG.320-3P50-N100	400 (320)	255	50	100	150	200	<1.6	<1.5	6	4
BGG.385-3P50-N50	480 (385)	255	50	50	150	150	<1.8	<1.5	6	4
BGG.385-3P50-N100	480 (385)	255	50	100	150	200	<1.8	<1.5	6	4
BGG.420-3P50-N50	600 (420)	255	50	50	150	150	<2.0	<1.5	6	4
BGG.420-3P50-N100	600 (420)	255	50	100	150	200	<2.0	<1.5	6	4

ELECTRICAL DIAGRAM

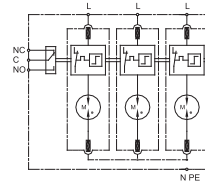
SCHEMATIC 1



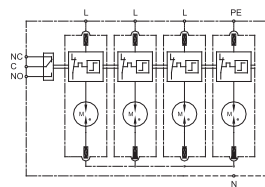
SCHEMATIC 2



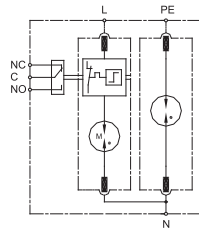
SCHEMATIC 3



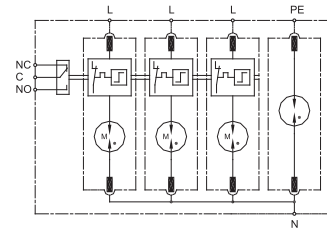
SCHEMATIC 4



SCHEMATIC 5

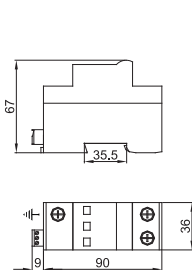


SCHEMATIC 6

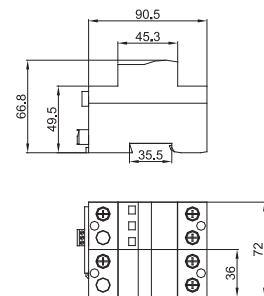


MECHANICAL DIMENSIONS (mm)

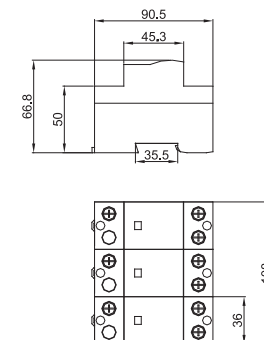
CASE 1



CASE 2



CASE 3



CASE 4

